□.	Changed a file from non-ASCII to ASCII  Changed a file from non-ASCII to ASCII
·	Changed the margins in cases where the sequence text was "wrapped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:  DEC 11203
, 	Deleted: non-ASCII *garbage* at the beginning/end of files; secretary initials/liferable according file page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically: Seg 90 - inserted 62127 and response
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted ending stop codon in amino acid sequences and adjusted the *(A)Length:* field accordingly (error due to a Patentin bug). Sequences corrected:

LExaminer: The above corrections must be communicated to the applicant in the first Office 3/1/95 Action. DO NOT send a copy of this form.

**Does Not Comply** 

1638

RAW SEQUENCE LISTING DATE: 11/27/2000 PATENT APPLICATION: US/09/549,848A TIME: 17:38:06

Input Set : A:\17133US2.txt

Output Set: N:\CRF3\11272000\1549848A.raw

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4 <110> APPLICANT: Lassner, Michael
                                                                           Corrected Diskette Needed
         Post-Beittenmiller, Dusty
         Savidge, Beth
         Weiss, James
 9 <120> TITLE OF INVENTION: Nucleic Acid Sequences Involved in
       Tocopherol Synthesis
12 <130> FILE REFERENCE: 17133/02/US
14 <140> CURRENT APPLICATION NUMBER: 09/549,848A
15 <141> CURRENT FILING DATE: 2000-04-14
17 <150> PRIOR APPLICATION NUMBER: 60/129,899
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51 aagtoogtty atotgagtag caaaaccgaa ataacttoat gitatatgit cataiggaag
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/549,848A

DATE: 11/27/2000

TIME: 17:38:06

Input Set : A:\17133US2.txt

Output Set: N:\CRF3\11272000\1549848A.raw

62 Phe Cys Trp Lys Lys Gln Asn Leu Lys Leu His Ser Leu Ser Glu Ile 20 25 64 Arg Val Leu Arg Cys Asp Ser Ser Lys Val Val Ala Lys Pro Lys Phe 65  $\phantom{0}35$   $\phantom{0}40$   $\phantom{0}45$ 4.5 66 Arg Asn Asn Leu Val Arg Pro Asp Gly Gln Gly Ser Ser Leu Leu 55 70 Pro Glu Ala Phe Asp Ser Asn Ser Lys Gln Lys Ser Phe Arg Asp Ser 85 90 72 Leu Asp Ala Phe Tyr Arg Phe Ser Arg Pro His Thr Val Ile Gly Thr 73 100 105 110 74 Val Leu Ser The Leu Ser Val Ser Phe Leu Ala Val Glu Lys Val Ser 75 115 120 125 76 Asp Ile Ser Pro Leu Leu Phe Thr Gly Ile Leu Glu Ala Val Val Ala 77 130 135 140 78 Ala Leu Met Met Asn Ile Tyr Ile Val Gly Leu Asn Gln Leu Ser Asp 79 145  $\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}160\phantom{\bigg|}$ 80 Val Glu The Asp Lys Val Asn Lys Pro Tyr Leu Pro Leu Ala Ser Gly 81 \$165\$82 Glu Tyr Ser Val Asn Thr Gly Ile Ala Ile Val Ala Ser Phe Ser Ile 83  $$180\$ 84 Met Ser Phe Trp Leu Gly Trp Ile Val Gly Ser Trp Pro Leu Phe Trp 85  $\phantom{\bigg|}200\phantom{\bigg|}205\phantom{\bigg|}$ 86 Ala Leu Phe Val Ser Phe Met Leu Gly Thr Ala Tyr Ser Ile Asn Leu 87  $^{\prime}$  210  $^{\prime}$  215  $^{\prime}$  220 88 Pro Leu Leu Arg Trp Lys Arg Phe Ala Leu Val Ala Ala Met Cys Ile 89 225  $\phantom{\bigg|}230\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}235\phantom{\bigg|}$ 230 90 Leu Ala Val Arg Ala Ile Ile Val Gln Ile Ala Phe Tyr Leu His Ile 91 245 250 92 Gln Thr His Val Phe Gly Arg Pro Ile Leu Phe Thr Arg Pro Leu Ile 93  $\phantom{\bigg|}260\phantom{\bigg|}265\phantom{\bigg|}270\phantom{\bigg|}$ 94 Phe Ala Thr Ala Phe Met Ser Phe Phe Ser Val Val Ile Ala Leu Phe 95 275 280 28096 Lys Asp The Pro Asp The Glu Glu Asp Lys IIe Phe Gly Ile Arg Ser 97  $\phantom{-}290$  -  $\phantom{-}295$  300 98 Phe Ser Val Thr Leu Gly Gln Lys Arg Val Phe Trp Thr Cys Val Thr 99 305 310 315 320 100 Leu Leu Gln Met Ala Tyr Ala Val Ala Ile Leu Val Gly Ala Thr Ser 101 325 330 102 Pro Phe Ile Trp Ser Lys Val Ile Ser Val Val Gly His Val Ile Leu 103 340 345 106 Thr Glu Ile Thr Ser Cys Tyr Met Phe Ile Trp Lys Leu Phe Tyr Ala 107  $\phantom{\bigg|}$  370  $\phantom{\bigg|}$  375  $\phantom{\bigg|}$  380 108 Glu Tyr Leu Leu Leu Pro Phe Leu Lys 3.09 385 390 111 <210> SEQ ID NO: 3



IJ

## RAW SEQUENCE LISTING PATENT APPLICATION: US/09/549,848A DATE: 11/27/2000 TIME: 17:38:06

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157 158	Pro Lys Lys	85 Asp Asp 100	Lys			1.05	Asp				1.10	Lys		
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157 158 159 160	Pro Lys Lys Ala Ser Trp 115	85 Asp Asp 100 Tle Asp	Lys Leu	Tyr	Leu 120	105 Pro	Asp	Glu	Val	Arg 125	110 Gly	Lys	Ala	
157 158 159 160 161	Pro Lys Lys Ala Ser Trp 115 Lys Leu Ala	85 Asp Asp 100 Tle Asp	Lys Leu	Tyr Lys	Leu 120	105 Pro	Asp	Glu	Val Trp	Arg 125	110 Gly	Lys	Ala	
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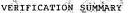


RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/549,848A

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171	Pro Ph	e G1.	n Gly	.I l.e	Gly	Phe	Leu	Gly.	Leu	Gln	Leu	Leu	Leu	GIY.	Leu-	1	
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/549,848A DATE: 11/27/2000 TIME: 17:38:06

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٠							-	14.75							20		jecagt		1080	
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	4.5																aaaact	-	1.20.0	7
100																	cogttt		1260	
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Dr.		<211:			· W		ě.				1	-	S 5			2				
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***		Met 1	0.1				Val.	Val	Tur	Arm	pho	Sar	Sor	Ara	TIA	Sor	val.			
		11	1 1 12	nr. 9	v. y	5	, u.i.	, vai	rir	ni 9	10	JUL	بدعاب	tar 9	1,1,0	15	V CL			
		Ser S	zor	cor	LOU	_	A cin.	Dreco	λωσ	Lou		Dro	men.	cor	Arec		Tou			
	236	3er :	SEL	Ser	20	P 3. O	Ball	t 1.0	wig	25	116	E LO	ттр	361	-30	1) L.C/	Leu			
		Cys	A 1 -	vio 1		Cor	Dho	car	cln		Dec	i Vol	Com	mbos		cox	The			
	238	Cys	чта	3.5	ASII	<b>5</b> e1.	PHE	5e4.	40	PIU	P 1. O	Val.	261	45	G.I. U	ser	1111.			
					C1	т10	The second	C3		7 ~~~	Con	3.00			Ø inc	W-, 1	Dho			
		Ala		Den	Ö.r. A	тте	1111	_	v.a J.	ALG	ser.	ASP	60 WTG	ASII	AL 9	Vaj.	rne			
	240		50	335	tri la fan	. 1	A1-	55	mlssa	210	to la sa	71.0		ml	01	01	rle			
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7	244	G 6	ar de-	ff:	0.7	85		Y	. 1		90		N - 4-		17- 1	95				
-		Cys 1	ryr.	Trp		ı.eu	ser	rys	Ala	_	Leu	ser	мет	Leu		Val	Ala			
3	246				100			Anna 19	_	105				- 1	110	- 1				
		Thr S			rnr	GTA	туг	IТÉ		GTA	Thr	GLY.	Asn		Ala	TTG	ser			
-	248	2		115	4				120					125						
		Phe I		GIY	Leu	Cys	Tyr.		Cys	ALa	Gly	Thr		Met	ILLE	A.La	Ala			
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	254					165					170					175		١.		
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TIME: 17:38:07

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L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:795 M:282 W: Numeric Field Identifier Missing, <212> is required.
```